

Having described the invention, we claim:

1. A computer program product for time thresholding dwells executed by an electromagnetic signal receiver, said product comprising:

a first instruction for receiving electromagnetic signals from a surrounding environment;

a second instruction for creating data from the electromagnetic signals;

a third instruction for chronologically segregating the electromagnetic signals into a plurality of dwells each with a dwell time;

a fourth instruction for controlling the scanning of the surrounding environment;

a fifth instruction for setting dwell parameters; and

a sixth instruction for determining whether to skip the execution of particular dwells exceeding a time threshold.

2. The computer program product as set forth in claim 1 further comprising an instruction for determining whether a revisit time of a dwell is less than a predetermined allocation monitor exemption time.

3. The computer program product as set forth in claim 1 further comprising an instruction for determining each dwell time by subtracting a start time from a clock time.

4. The computer program product as set forth in claim 1 further comprising an instruction for conducting further processing of data obtained from said fifth and sixth instruction.

5. The computer program product as set forth in claim 1 wherein said fourth instruction includes the issuing of commands to a receiver for varying the frequency of the electromagnetic signals received from the surrounding environment.

6. A system for time thresholding dwells executed by an electromagnetic signal receiver, said system comprising:

a detection module for receiving electromagnetic signals from a surrounding environment, the electromagnetic signals being chronologically segregated into a plurality of dwells each with a dwell time;

a processing module for controlling the scanning of the surrounding environment, said processing module setting dwell parameters and determining whether to skip the execution of particular dwells exceeding a time threshold, said processing module receiving data about the signals from said detection module.

7. A method for time thresholding dwells executed by an electromagnetic signal receiver, said method comprising the steps of:

receiving electromagnetic signals from a surrounding environment;

creating data from the electromagnetic signals;

chronologically segregating the electromagnetic signals into a plurality of dwells each with a dwell time;

controlling the scanning of the surrounding environment;

setting dwell parameters; and

determining whether to skip the execution of particular dwells exceeding a time threshold.

8. The method as set forth in claim 7 further comprising the step of determining each dwell time by subtracting a temporarily fixed start time from a clock time.